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NOTICE OF ALLOWANCE AND FEE(S) DUE

66547 7590 07/23/2009 THE FARRELL LAW FIRM, LLP

290 Broadhollow Road Suite 210E Melville, NY 11747 EXAMINER
TON, DAVID
ART UNIT PAPER NUMBER
2117

DATE MAILED: 07/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/585,052	04/16/2007	Kun-Min Yeo	1403-16 PCT US	7905			
TITLE OF INVENTION; METHOD FOR RETRANSMITTING PACKET IN MOBILE COMMUNICATION SYSTEM AND COMPUTER-READABLE							

MEDIUM RECORDED PROGRAM THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further e indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off	or trang the nerwise	nsmitting the ISSU Patent, advance on in Block 1, by (a	JE FEE and PUBLICA rders and notification of a) specifying a new con	ATTO of m	ON FEE (if requi- naintenance fees woondence address;	red). B ill be i and/or	locks 1 through 5 sl mailed to the current (b) indicating a sepa	ould be co correspond rate "FEE	ompleted where ence address as ADDRESS" for
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290 Broadhollow Suite 210E		LP		I S a tr	her state ddre	eby certify that thi	e Feets	of Mailing or Trans:) Transmittal is being ficient postage for firs (SSUE FEE address 1) 273-2885, on the d	deposited	with the United in an envelope being facsimile d below.
Melville, NY 117	747			Г						(Depositor's name)
										(Signature)
										(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR	I	ATTO	RNEY DOCKET NO.	CONFIRM	MATION NO.
10/585,052	04/16/2007			Kun-Min Yeo			14	03-16 PCT US	7	7905
TITLE OF INVENTION MEDIUM RECORDED I		RANS!	MITTING PACKE	T IN MOBILE COMN	IUN	VICATION SYSTE	EM AN	TD COMPUTER-REA	DABLE	
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nonprovisional	NO		\$1510	\$300		\$0		\$1810	10	0/23/2009
EXAM	INER		ART UNIT	CLASS-SUBCLASS	\neg					
TON, DAVID			2117	714-748000	_					
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.56). Change of correspondence address (or Change of Correspondence Address form FTIOSH 22) attached. "Fee Address" indication or "Fee Address" indication form FTIOSH4T; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			Correspondence	(I) the names of up or agents OR, altern (2) the name of a sin registered attorney of	a single firm (having as a member a ey or agent) and the names of up to entattorneys or agents. If no name is					
(A) NAME OF ASSIC	ess an assignee is ident n in 37 CFR 3.11. Comj BNEE	ified b oletion	elow, no assignee of this form is NO	data will appear on the T a substitute for filing: (B) RESIDENCE: (CI	e pa an a	tent. If an assigne assignment. and STATE OR C	OUNT	RY)		
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	_	Individual Co.	rporati	on or other private gro	up entity	Government
Advance Order - #	o small entity discount p		ed)	o. Payment of Fee(s): (P	d. card eby	I. Form PTO-2038 authorized to chars	is atta	ched. equired fee(s), any de	iciency, or	
	SMALL ENTITY state	ıs. See	37 CFR 1.27.	☐ b. Applicant is no I						
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) v tes Pat	will not be accepted ent and Trademark	d from anyone other that Office.	ın th	e applicant; a regis	stered a	ttorney or agent; or th	e assignee	or other party in
Authorized Signature						Date				
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This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C USPT den, sl NOT	11. The informatic 122 and 37 CFR O. Time will vary hould be sent to th SEND FEES OR	on is required to obtain of 1.14. This collection is depending upon the in e Chief Information Off COMPLETED FORMS	or re esti divi ficer TO	etain a benefit by the mated to take 12 n dual case. Any con r, U.S. Patent and ' THIS ADDRESS.	ne publ ninutes mment: Fradem . SENI	to which is to file (and to complete, including s on the amount of tit ark Office, U.S. Depa of TO: Commissioner	by the US g gathering ne you requ rtment of C or Patents,	PTO to process), preparing, and ire to complete commerce, P.O. P.O. Box 1450,

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THE FARRELL	LAW FIRM, LLP	TON, DAVID			
290 Broadhollow I	Road		ART UNIT	PAPER NUMBER	
Suite 210E Melville, NY 1174	7		2117 DATE MAIL ED: 07/23/200		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 402 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 402 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/585 052 YEO ET AL. Notice of Allowability Examiner Art Unit David Ton 2117 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to Amendment filed on 4/22/2008. The allowed claim(s) is/are 14-36 which are renumbered to 1-23. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🛛 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. T Examiner's Amendment/Comment Paper No./Mail Date See Continuation Sheet 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /David Ton/

Primary Examiner, Art Unit 2117

 $Continuation \ of \ Attachment (s) \ 3. \ Information \ Disclosure \ Statements \ (PTO/SB/08), \ Paper \ No. / Mail \ Date: 6/29/06\&12/26/07\&9/9/08.$

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Claims 14-36 are allowed.

2. The following is an Examiner's Statement of Reasons for Allowance:

The prior art of record (PTO-892 and IDS) teaches the claimed invention substantially, but it falls to teach or suggest singly or in combination a method for receiving an Automatic Repeat Request (ARQ) block, comprising: if an ARQ block is received, determining if a block sequence number of the ARQ block is in a range of a receipt window; if the block sequence number of the ARQ block is in the range of the receipt window, determining if the ARQ block is a duplicate of a previously received ARQ block; if the ARQ block is not a duplicate and the block sequence number of the ARQ block is not less than a highest block sequence number of received ARQ blocks, updating the highest block sequence number of the ARQ block is equal to a start block sequence number of the receipt window, updating the start block sequence number of the receipt window as the test pattern sets as set forth in independent claims 14 and 20.

The prior art of record also fails to teach or suggest singly or in combination a method for a transmitter to retransmit a packet to a receiver, comprising: if a transmitter does not receive an acknowledgment message for a packet transmitted to the receiver, setting a retransmission timeout; if the retransmission timeout expires, retransmitting the packet; if a maximum management time expires, transmitting a discard message for the packet to the receiver and transiting to a discarded state; and if the transmitter

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receives, in the discarded state, the acknowledgment message for the packet or an acknowledgment message for the discard message, discarding the packet from a transmitting buffer as set forth in independent claim 26. Also, the prior art of record also fails to teach or suggest singly or in combination a method for a transmitter to retransmit an Automatic Repeat reQuest (ARQ) block to a receiver, comprising: if the transmitter transmits the ARQ block to the receiver in a not-sent state of the ARQ block, transiting a state of the ARQ block to an outstanding state; if the transmitter does not receive an acknowledgment message for the ARQ block for a timeout in the outstanding state, or if the transmitter receives a non-acknowledgment message for the ARQ block in the outstanding state, transiting the state of the ARQ block to a retransmissionwaiting state; if the transmitter retransmits the ARQ block to the receiver in the retransmission-waiting state, transiting the state of the ARQ block to the outstanding state; if a lifetime of the ARQ block expires in the outstanding state, transiting the state of the ARQ block to a discarded state; and if the transmitter receives, in the discarded state, an acknowledgment message for the ARQ block or an acknowledgment message for a discard message for the ARQ block, transiting the state of the ARQ block to a done state as set forth in independent claim 28.

Furthermore, the prior art of record also fails to teach or suggest singly or in combination a method for a transmitter to retransmit an automatic repeat request (ARQ) block to a receiver, comprising: if the transmitter transmits the ARQ block to the receiver in a not-sent state of the ARQ block, transiting a state of the ARQ block to an outstanding state; if the transmitter does not receive an acknowledgment message for

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the ARQ block for a timeout in the outstanding state, transiting the state of the ARQ block to a retry-timeout state; if the transmitter receives a non-acknowledgment message for the ARQ block in the outstanding state, transiting the state of the ARQ block to a non-acknowledged state; if the transmitter receives a non-acknowledgment message for the ARQ block in the retry-timeout state, transiting the state of the ARQ block to the non-acknowledged state; if the transmitter retransmits the ARQ block to the receiver in the retry-timeout state, transiting the state of the ARQ block to the outstanding state; if the transmitter retransmits the ARQ block to the receiver in the non-acknowledged state, transiting the state of the ARQ block to the outstanding state; if a lifetime of the ARQ block expires in the outstanding state, transiting the state of the ARQ block to the discarded state, an acknowledgment message for the ARQ block or an acknowledgment message for a discard message for the ARQ block, transiting the state of the ARQ block to a done state as set forth in independent claim 33.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance". Art Unit: 2117

4. The prior art of record (PTO-892) is considered pertinent to applicant's

disclosure.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David Ton whose telephone number is (571) 272-3828.

The examiner can normally be reached on M-F from 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kevin Ellis can be reached on (571) 272-4205. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have guestions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David Ton/ Primary Examiner, Art Unit 2117

David Ton Primary Examiner Art Unit 2117